

Recombinant Human ATP4B protein, GST-tagged

Cat. No. ATP4B-2943H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP4B(1 a.a. - 291 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-291 a.a.
Description	The protein encoded by this gene belongs to a family of P-type cation-transporting ATPases. The gastric H⁺, K⁺-ATPase is a heterodimer consisting of a high molecular weight catalytic alpha subunit and a smaller but heavily glycosylated beta subunit. This enzyme is a proton pump that catalyzes the hydrolysis of ATP coupled with the exchange of H⁽⁺⁾ and K⁽⁺⁾ ions across the plasma membrane. It is also responsible for gastric acid secretion. This gene encodes the beta subunit of the gastric H⁺, K⁺-ATPase.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	57.75 kDa
AA Sequence	MAALQEKKTCGQRMEEFQRYCWNPD TGQMLGRTL SRVWVWISLYYVAFYVVM TGL FALCLYVLMQTVDPYTPDYQD QLRSPGVTLRPDVYGEKGLEIVYNVSDNRTWADLT QTLHAFLAGYSPAAQEDSINCTSEQYFFQESFRAPNHTKF SCKFTADMLQNCSGLA DPNFGFEEGKPCFIKMN RIVKFLPSNGSAPRVDC AFLDQPRELGQPLQVKYYPNG

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	TF SLHYFPYYGKKAQPHYSNPLVAAKLLNIPRNAEVAIVCKVMAEHVTFNNPHDPYE GKVEFKLKIEK
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	ATP4B ATPase, H+/K+ exchanging, beta polypeptide [Homo sapiens]
Official Symbol	ATP4B
Synonyms	ATP4B; ATPase, H+/K+ exchanging, beta polypeptide; potassium-transporting ATPase subunit beta; ATP6B; proton pump beta chain; gastric H+/K+ ATPase beta subunit; gastric H(+)/K(+) ATPase subunit beta; gastric hydrogen-potassium ATPase, beta; potassium-transporting ATPase beta chain; ATPase, H+/K+ transporting, beta polypeptide;
Gene ID	496
mRNA Refseq	NM_000705
Protein Refseq	NP_000696
MIM	137217
UniProt ID	P51164

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Chromosome Location	13q34
Pathway	Collecting duct acid secretion, organism-specific biosystem; Collecting duct acid secretion, conserved biosystem; Gastric acid secretion, organism-specific biosystem; Gastric acid secretion, conserved biosystem; Ion channel transport, organism-specific biosystem; Ion transport by P-type ATPases, organism-specific biosystem; Oxidative phosphorylation, organism-specific biosystem;
Function	hydrogen:potassium-exchanging ATPase activity; sodium:potassium-exchanging ATPase activity;

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